CLAIMS

1	1. (ORIGINAL) A computer-implemented method for generating a transformation
2	document, comprising:
3	analyzing a first document;
4	analyzing a second document; and
5	automatically generating, based upon said first and second documents, a
6	transformation document which, when processed in conjunction with said first document,
7	gives rise to a result document that is at least an approximation of said second document.
1	2. (ORIGINAL) The method of claim 1, wherein said first and second documents are
2	XML (eXtensible Markup Language) documents.
1	3. (ORIGINAL) The method of claim 2, wherein said transformation document is an
2	XSLT (eXtensible Stylesheet Language Transformation) document.
1	4. (ORIGINAL) The method of claim 1, wherein automatically generating said
2	transformation document comprises:
3	selecting a particular data structure pattern that occurs in said second document;
4	determining whether said first document comprises a matching data structure pattern
5	that matches said particular data structure pattern; and
6	in response to a determination that said first document comprises said matching data
7	structure pattern, inserting a template comprising one or more actions into said
8	transformation document, said template being invoked when a particular triggering data
9	structure pattern is encountered during processing of said transformation document, and
10	when invoked, causes said particular data structure pattern to be created in said result
11	document.

- 1 5. (ORIGINAL) The method of claim 4, wherein said particular triggering data
- 2 structure pattern comprises said matching data structure pattern.
- 1 6. (PREVIOUSLY PRESENTED) The method of claim 4, wherein automatically
- 2 generating said transformation document further comprises:
- in response to a determination that said first document does not comprise said
- 4 matching data structure pattern, inserting a non-match template comprising one or more
- 5 actions into said transformation document, said non-match template which indicates to a
- 6 user that a triggering data structure pattern needs to be specified for said non-match
- 7 template, said non-match template, if invoked, causing said particular data structure pattern
- 8 to be created in said result document.
- 1 7. (CANCELED)
- 1 8. (ORIGINAL) The method of claim 4, wherein automatically generating said
- 2 transformation document comprises:
- 3 selecting a non-matching data structure pattern that occurs in said first document that
- 4 does not match any data structure pattern that occurs in said second document; and
- 5 inserting an action-needed template into said transformation document, said action-
- 6 needed template being invoked when said non-matching data structure pattern is
- 7 encountered during processing of said transformation document, said action-needed
- 8 template comprising an indication that one or more actions needs to be specified for said
- 9 action-needed template.
- 1 9. (ORIGINAL) The method of claim 1, wherein automatically generating said
- 2 transformation document comprises:
- 3 selecting a particular data structure pattern that occurs in said second document:

- 4 determining a synonymous data structure pattern that is synonymous with said
- 5 particular data structure pattern;
- determining whether said first document comprises a matching data structure pattern
- 7 that matches said synonymous data structure pattern; and
- 8 in response to a determination that said first document comprises said matching data
- 9 structure pattern, inserting a template comprising one or more actions into said
- transformation document, said template being invoked when a particular triggering data
- structure pattern is encountered during processing of said transformation document, and
- when invoked, causes said particular data structure pattern to be created in said result
- 13 document.
- 1 10. (ORIGINAL) The method of claim 9, wherein said particular triggering data
- 2 structure pattern comprises said matching data structure pattern.
- 1 11. (ORIGINAL) The method of claim 9, wherein determining said synonymous data
- 2 structure pattern comprises:
- 3 accessing a set of information that indicates that said particular data structure pattern
- 4 is synonymous with said synonymous data structure pattern.
- 1 12. (ORIGINAL) The method of claim 11, wherein said set of information is provided
- 2 by a user.
- 1 13. (ORIGINAL) The method of claim 1, wherein automatically generating said
- 2 transformation document comprises:
- determining whether any data structure pattern occurring in said first document is
- 4 identical to a data structure pattern occurring in said second document; and

- 5 in response to a determination that a particular data structure pattern occurring in 6 said first document is identical to a data structure pattern occurring in said second document, 7 inserting a template into said transformation document, said template comprising a copy 8 action, said template being invoked when said particular data structure pattern is encountered during processing of said transformation document, and when invoked, causes 9 10 said particular data structure pattern to be copied into said result document. 1 14. (ORIGINAL) The method of claim 1, 2 wherein analyzing said first document comprises: 3 compiling a first list of data structure patterns that occur in said first 4 document; and 5 wherein analyzing said second document comprises: 6 compiling a second list of data structure patterns that occur in said second 7 document. 1 15. (ORIGINAL) The method of claim 1, further comprising: 2 processing said transformation document in conjunction with a third document to 3 derive a transformed document, wherein said third document is a different document from 4 said first document.
- 1 17. (ORIGINAL) A computer readable medium comprising instructions which, when executed by one or more processors, cause the one or more processors to generate a transformation document, said computer readable medium comprising:

instructions for causing one or more processors to analyze a first document;

5

type, and wherein said third document is of the same particular type.

(ORIGINAL) The method of claim 15, wherein said first document is of a particular

1

2

4

16.

P6853

- 5 instructions for causing one or more processors to analyze a second document; and
- 6 instructions for causing one or more processors to automatically generate, based
- 7 upon said first and second documents, a transformation document which, when processed in
- 8 conjunction with said first document, gives rise to a result document that is at least an
- 9 approximation of said second document.
- 1 18. (ORIGINAL) The computer readable medium of claim 17, wherein said first and
- 2 second documents are XML (eXtensible Markup Language) documents.
- 1 19. (ORIGINAL) The computer readable medium of claim 18, wherein said
- 2 transformation document is an XSLT (eXtensible Stylesheet Language Transformation)
- 3 document.
- 1 20. (ORIGINAL) The computer readable medium of claim 17, wherein the instructions
- 2 for causing one or more processors to automatically generate said transformation document
- 3 comprises:
- 4 instructions for causing one or more processors to select a particular data structure
- 5 pattern that occurs in said second document;
- 6 instructions for causing one or more processors to determine whether said first
- 7 document comprises a matching data structure pattern that matches said particular data
- 8 structure pattern; and
- 9 instructions for causing one or more processors to insert, in response to a
- determination that said first document comprises said matching data structure pattern, a
- template comprising one or more actions into said transformation document, said template
- being invoked when a particular triggering data structure pattern is encountered during

- processing of said transformation document, and when invoked, causes said particular data
- structure pattern to be created in said result document.
- 1 21. (ORIGINAL) The computer readable medium of claim 20, wherein said particular
- 2 triggering data structure pattern comprises said matching data structure pattern.
- 1 22. (PREVIOUSLY PRESENTED) The computer readable medium of claim 20,
- 2 wherein the instructions for causing one or more processors to automatically generate said
- 3 transformation document further comprises:
- 4 instructions for causing one or more processors to insert, in response to a
- 5 determination that said first document does not comprise said matching data structure
- 6 pattern, a non-match template comprising one or more actions into said transformation
- 7 document, said non-match template specifying a special triggering data structure pattern
- 8 which indicates to a user that a triggering data structure pattern needs to be specified for said
- 9 non-match template, said non-match template, if invoked, causing said particular data
- structure pattern to be created in said result document.
- 1 23. (CANCELED)
- 1 24. (ORIGINAL) The computer readable medium of claim 20, wherein the instructions
- 2 for causing one or more processors to automatically generate said transformation document
- 3 comprises:
- 4 instructions for causing one or more processors to select a non-matching data
- 5 structure pattern that occurs in said first document that does not match any data structure
- 6 pattern that occurs in said second document; and
- 7 instructions for causing one or more processors to insert an action-needed template
- 8 into said transformation document, said action-needed template being invoked when said

- 9 non-matching data structure pattern is encountered during processing of said transformation
- document, said action-needed template comprising an indication that one or more actions
- 11 needs to be specified for said action-needed template.
- 1 25. (ORIGINAL) The computer readable medium of claim 17, wherein the instructions
- 2 for causing one or more processors to automatically generate said transformation document
- 3 comprises:
- 4 instructions for causing one or more processors to select a particular data structure
- 5 pattern that occurs in said second document;
- 6 instructions for causing one or more processors to determine a synonymous data
- 7 structure pattern that is synonymous with said particular data structure pattern;
- 8 instructions for causing one or more processors to determine whether said first
- 9 document comprises a matching data structure pattern that matches said synonymous data
- 10 structure pattern; and
- instructions for causing one or more processors to insert, in response to a
- determination that said first document comprises said matching data structure pattern, a
- template comprising one or more actions into said transformation document, said template
- being invoked when a particular triggering data structure pattern is encountered during
- processing of said transformation document, and when invoked, causes said particular data
- structure pattern to be created in said result document.
- 1 26. (ORIGINAL) The computer readable medium of claim 25, wherein said particular
- 2 triggering data structure pattern comprises said matching data structure pattern.

- 1 27. (ORIGINAL) The computer readable medium of claim 25, wherein the instructions
- 2 for causing one or more processors to determine said synonymous data structure pattern
- 3 comprises:
- 4 instructions for causing one or more processors to access a set of information that
- 5 indicates that said particular data structure pattern is synonymous with said synonymous
- 6 data structure pattern.
- 1 28. (ORIGINAL) The computer readable medium of claim 27, wherein said set of
- 2 information is provided by a user.
- 1 29. (ORIGINAL) The computer readable medium of claim 17, wherein the instructions
- 2 for causing one or more processors to automatically generate said transformation document
- 3 comprises:
- 4 instructions for causing one or more processors to determine whether any data
- 5 structure pattern occurring in said first document is identical to a data structure pattern
- 6 occurring in said second document; and
- 7 instructions for causing one or more processors to insert, in response to a
- 8 determination that a particular data structure pattern occurring in said first document is
- 9 identical to a data structure pattern occurring in said second document, a template into said
- transformation document, said template comprising a copy action, said template being
- 11 invoked when said particular data structure pattern is encountered during processing of said
- 12 transformation document, and when invoked, causes said particular data structure pattern to
- be copied into said result document.
- 1 30. (ORIGINAL) The computer readable medium of claim 17,

2	wherein the instructions for causing one or more processors to analyze said first
3	document comprises:
4	instructions for causing one or more processors to compile a first list of data
5	structure patterns that occur in said first document; and
6	wherein the instructions for causing one or more processors to analyze said second
7	document comprises:
8	instructions for causing one or more processors to compile a second list of
9	data structure patterns that occur in said second document.
1	31. (ORIGINAL) The computer readable medium of claim 17, further comprising:
2	instructions for causing one or more processors to process said transformation
3	document in conjunction with a third document to derive a transformed document, wherein
4	said third document is a different document from said first document.
1	32. (ORIGINAL) The computer readable medium of claim 31, wherein said first
2	document is of a particular type, and wherein said third document is of the same particular
3	type.